

Field Artillery and Joint Fires Conference



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Chief of Field Artillery

The background of the slide is a dramatic, high-contrast image of a large explosion or fire. Bright orange and yellow flames and smoke billow upwards from a dark base, creating a sense of intense power and energy. The overall color palette is dominated by dark blues and blacks, with the bright fire providing a stark contrast.

Agenda

Conference Objectives

Key Points

Driving Change

Operation Iraqi Freedom (OIF)

Field Artillery Systems

Critical Information Requirements

Create the Thunder!



2003 Field Artillery and Joint Fires Conference Objectives

- To address the readiness and operational needs of Field Artillery units
- To report on the contribution of Field Artillery units in Operation Iraqi Freedom
- To inform on the development of Future Force Fires and Effects concepts
- To understand developing Joint Fires Concepts
- To explore, with industry, technological developments that contribute to Future Force capabilities
- To explore ways to achieve the integration of Joint Fires and Effects to achieve Battlefield Dominance



Key Points

- The Effects of **Joint Fires** including **Artillery** win wars
- The FA needs to become the **Joint Fires Integrator**
- **Field Artillery** fires contributed significantly to success in Operation Iraqi Freedom
- Transformation to the **Future Force** is ongoing now
- We must train properly with all **Fires and Effects**
- The **Army** and the **Field Artillery** are changing
- Indirect Fires and Effects will be **increasingly important** in Major Combat Operations (MCO)



Driving Change

Soldier Requirements

Current Force Requirements

CSA Focus Areas

Transformation Guidance

Required Future Capabilities

Technology Developments

Operation Iraqi Freedom Lessons Learned

**Integrated Joint Fires can Achieve
Battlefield Dominance**



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- A collection of 18 military unit crests and emblems. The crests include: 1. Airborne unit with a white wing on a blue shield. 2. Airborne unit with a white eagle on a black shield. 3. 4th Marines unit with a yellow diamond containing the number 4. 4. 11th Marines unit with a red shield and a white cross. 5. Airborne unit with a blue shield and a white 'A' inside a blue circle. 6. 11th Marines unit with a red shield and a white cross. 7. 11th Marines unit with a red shield and a white cross. 8. 11th Marines unit with a red shield and a white cross. 9. 11th Marines unit with a red shield and a white cross. 10. 11th Marines unit with a red shield and a white cross. 11. 11th Marines unit with a red shield and a white cross. 12. 11th Marines unit with a red shield and a white cross. 13. 11th Marines unit with a red shield and a white cross. 14. 11th Marines unit with a red shield and a white cross. 15. 11th Marines unit with a red shield and a white cross. 16. 11th Marines unit with a red shield and a white cross. 17. 11th Marines unit with a red shield and a white cross. 18. 11th Marines unit with a red shield and a white cross.

- The Field Artillery was crucial to OIF success!



Operation Iraqi Freedom

The **Field Artillery** contribution in OIF:

- 1 Corps Artillery
- 2 Division Artilleries and 2 FA Brigade HQs
- 12 FA Battalions
- ✓ 62 Howitzers (155mm) fired 14,500 rounds
- ✓ 62 Howitzers (105mm) fired 4,107 rounds
- ✓ 72 MLRS launched 857 rockets / 453 ATACMS
- ✓ USMC Artillery fired almost 20,000 rounds
- ❖ DivArty, FAB and 7 FA battalions added for SASO

"The Field Artillery proved to be the timeliest response to enemy actions"



Operation Iraqi Freedom

- **Joint Integration/Close Air Support (CAS)** much improved
- The **Combined Arms Team** was very successful
- Multiple **C2 Systems** were a challenge to integrate
- Greater access to **indirect fires** needed by all soldiers
- **Cannon Artillery** provided very responsive **close support**
 - Cannons were **critical** in **urban operations**
 - **HE / VT; SADARM; UXO**
- **Rocket and Missile** systems set the conditions
 - **ATACMS** – critical Joint operational fires
 - **MLRS and Firefinder** = deadly counterfire
 - **SOF / HIMARS** = lethal sensor to shooter

"Artillery Fires Saved Our Ass!" 3-7 CAV



Field Artillery Systems

- **Current Force**

- Meet soldier requirements / Accelerate technologies
- Support deployed and deploying units
- Achieve common C2 – field AFATDS
- Modernize – Paladin; M270A1; HIMARS
- Develop forced entry requirements – Light howitzer
- Targeting Capabilities – Mounted and Dismounted
- Develop ammunition enhancements

- **Stryker Brigades**

- Replace the M198 and increase lethality (3x6)
- Fix the Fire Support structure
- Integrate and train non-lethal effects
- Increase Radar capability



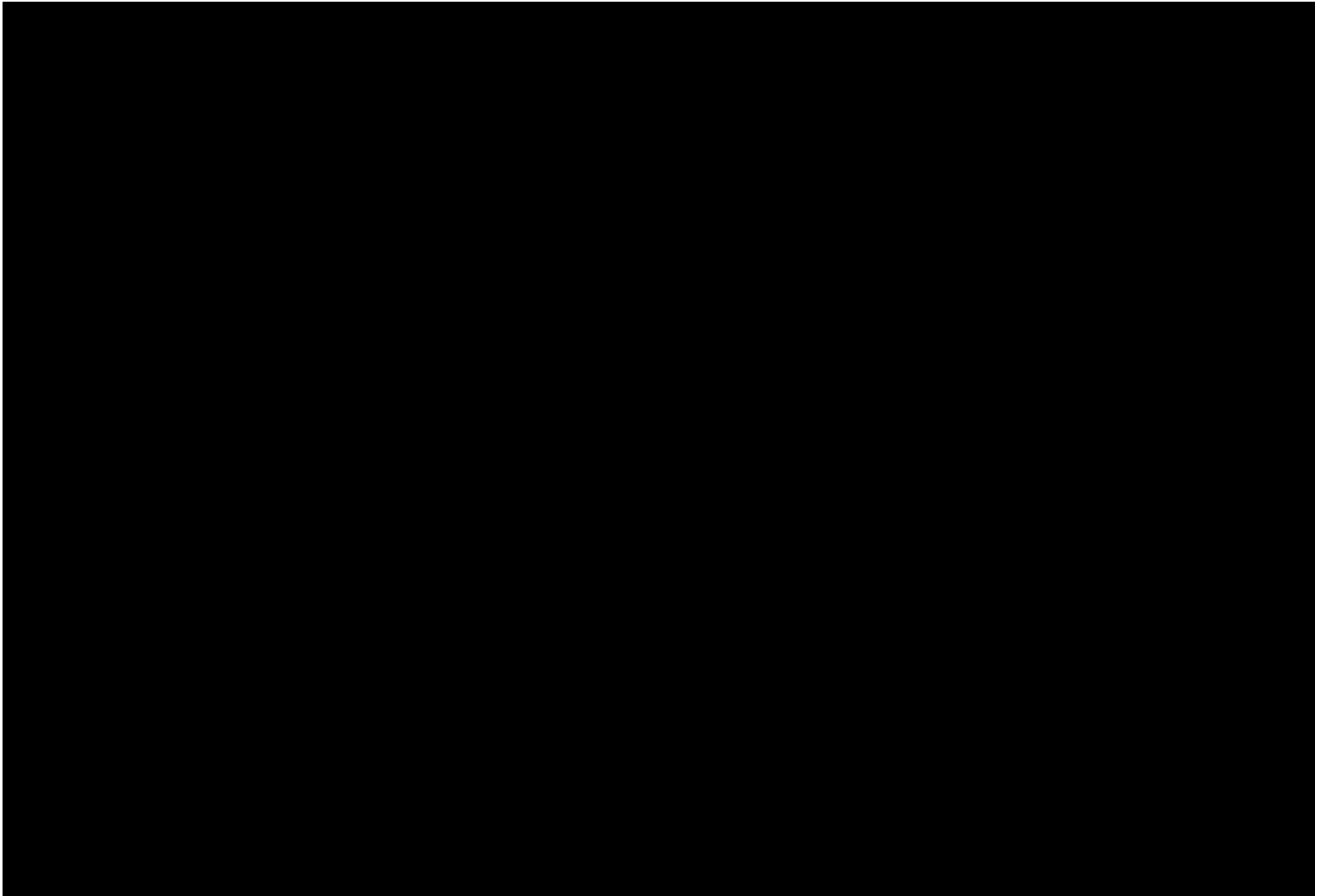
Future Combat System, Non-Line of Sight Cannon (FCS NLOS)

- Pivotal Crusader technologies transferred
- Demonstrator began firing in Sep 03
- Caliber: 155mm selected for demonstrator (lethality, technology, and risk)
- Wheels versus Tracks: Band track selected for the CTD
- 6 –10 Rounds per minute
- Auto-loading capability
- Rapid magazine resupply concept being developed





UD NLOS -Cannon





UD NLOS -Cannon



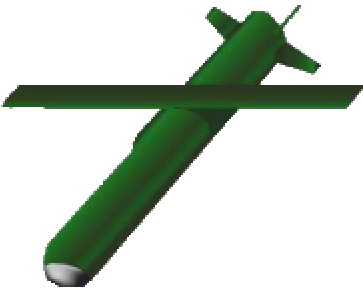


Non-Line of Sight Launch System

NLOS-LS

- System components: LAM, PAM, C/LU, and Mission Management Application
- C/LU is self-contained and platform independent
- An FCS system organic to the Unit of Action
- Missiles and vertical launch being tested

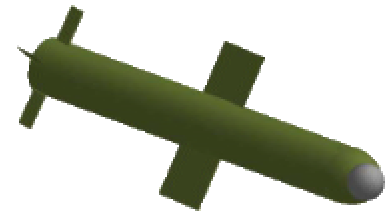
Loiter Attack Missile (LAM)



**Container/Launch Unit (C/LU) with
Computer and Communications System**



Precision Attack Missile (PAM)

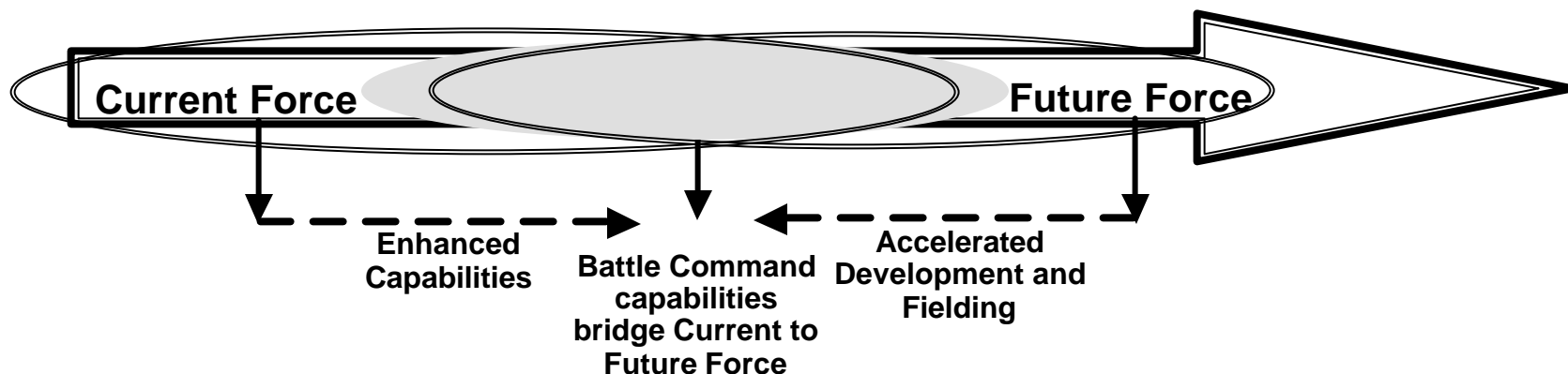




Chief of Field Artillery

Critical Information Requirements

- What are the urgent operational needs of Field Artillery soldiers and units?
- What near term capabilities and technologies can be fielded into the Field Artillery force?
- How can the Field Artillery best support Army organizational requirements and CSA Focus Areas including increased organizational modularity?

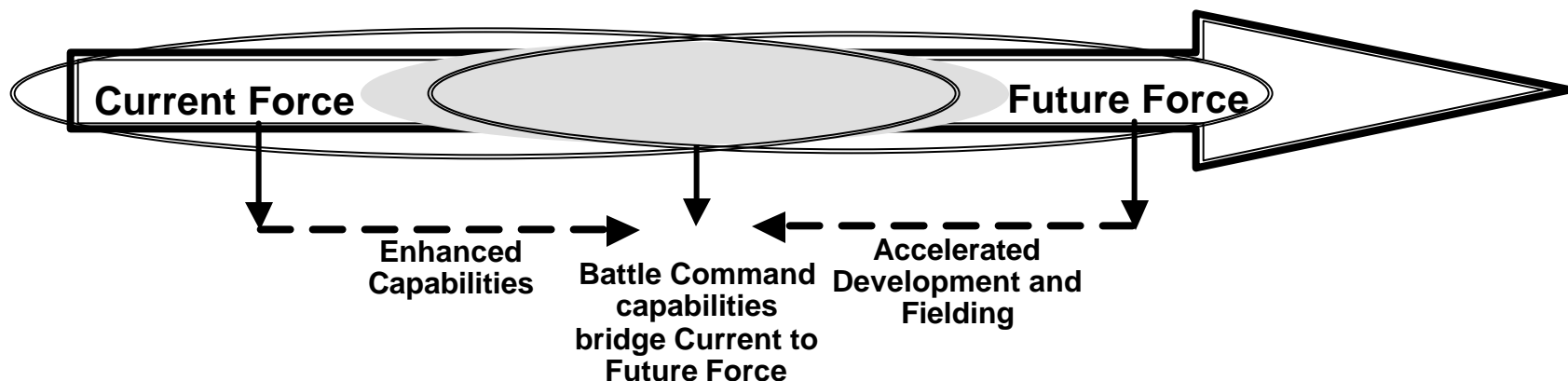




Chief of Field Artillery

Critical Information Requirements

- How do we capture and distribute successful Field Artillery tactics, techniques and procedures for the Contemporary Operating Environment (COE)?
- How do we better train and implement the full range of lethal and non-lethal effects in the current force?
- How do we improve the application and replication of fires at the Combat Training Centers?

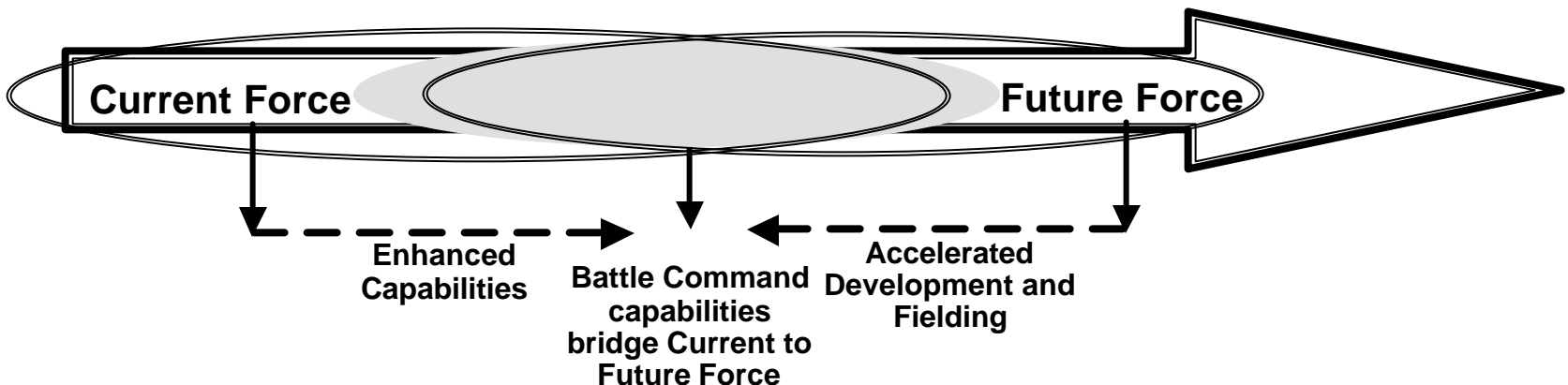




Chief of Field Artillery

Critical Information Requirements

- How can we positively affect the propensity of cadets to select Field Artillery as a branch?
- How can we improve Field Artillery Strategic Communications?
- What can we do to better integrate Joint, Interagency and Multinational Fires and Effects?
- How do we fully integrate Joint Fires to achieve Battlefield Dominance?





Competing Views... Competing Demands

- **Competing Views**
 - Air delivered fires can replace the Field Artillery
 - Cannons are not needed
 - Artillery ammo is a logistics burden
 - Waiting for World War III
 - FA isn't a Full Spectrum capability
- **Competing Demands**
 - Global War on Terrorism
 - Current Readiness
 - Modernization and Recapitalization
 - Transformation

**The Army will continue to require modernized, trained and ready
Field Artillery Units!**

Conclusions

The Field Artillery did an incredible job in OIF

- The Field Artillery is changing now
- Joint Fires Integration is critical to our future
- Your input is critical to the Conference and our future
- Thanks for what! you do for the Field Artillery, our Army and especially for our soldiers!

Create the Thunder!

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